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a digital data memory adapted for storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,
a control input for receiving a signal representing a selection of a portion of the image, wherein said selection ranges across said field-of-view, and
a converter, responsive to said control input, for converting stored digital data in said digital data memory representing a planar image for display.

11. (Twice Amended) A method of converting a digital image for use in an imaging system comprising the steps of:

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storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,
selecting a portion of said image, wherein said selecting step selects said portion across said field-of-view, and
converting stored digital data representing the selected portion into digital data representing a perspective-corrected image for display.

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23. (Twice Amended) A method of converting digital images for use in an imaging system comprising the steps of:

storing digital data representing an image having the properties of a circular field-of-view and objects in the field-of-view being substantially in focus,
selecting a viewing angle, wherein said viewing angle is chosen from the angles varying across said field-of-view, and

E3 cancel processing, responsive to the selected viewing angle, the stored digital data according to the selected viewing angle to output a perspective-corrected image for display.

Sub f27 25. (Twice Amended) A memory for a signal processor, comprising:

E4 a data structure, responsive to a control input representing a selection of a portion of an image stored in said memory, wherein said selection is chosen across said field of view, said data structure representing an orthogonal set of transformation algorithms; and a buffer memory adapted to store digital image data for transformation.

E5 38. (Amended) A method for displaying a portion of an image, the image having a field of view greater than or equal to 180 degrees, the method comprising the steps of:

capturing digital data representing at least some of the image;
receiving an input of at least one selected portion of the at least some of the digital data;
and

converting the at least one selected portion to a perspective corrected image in real-time in response to and based on information included in the input.

E6 46. (Amended) Apparatus for displaying a portion of an image, the image having a field of view greater than or equal to 180 degrees, the apparatus comprising:

image capturing means for capturing digital data representing at least some of the image;
input means for receiving an input of at least one selected portion of the at least some of the digital data; and

converter means for converting the at least one selected portion to a perspective corrected image in real-time in response to and based on information included in the input.

47. (Amended) Apparatus for displaying a portion of an image, the image having a field of view greater than or equal to 180 degrees, the apparatus comprising:

a lens for capturing digital data representing at least some of the image;
a joystick for inputting at least one selected portion of the at least some of the digital data; and

a converter for converting the at least one selected portion to a perspective corrected image in real-time in response to and based on information included in the input.

48. (Amended) A method for obtaining a wide-angle image, the wide angle image having a field of view greater than 180 degrees, the method comprising the steps of:

capturing the wide-angle image;
storing the wide-angle image in a format for subsequent display, said format being capable of transformation from said wide-angle image to a perspective-corrected image in real-time responsive to and based on information included in an input.

49. (Amended) Apparatus for providing a wide-angle image, the wide angle image having a field of view greater than or equal to 180 degrees, the apparatus comprising:

a lens for capturing the wide-angle image;

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a memory for storing the wide-angle image in a format for subsequent display, said format being capable of transformation from said wide-angle image to a perspective-corrected image in real time responsive to and based on information included in an input.

Kindly add the following new claims:

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-- 50. (New) The signal processor of claim 1, wherein the control input provides input information regarding a desired level of magnification.

51. (New) The signal processor of claim 1, wherein the control input provides input information regarding an orientation angle. --.